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## PATENT ABSTRACTS OF JAPAN

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## (54) TARGET FOR SPUTTERING AND PRODUCTION ITS

## (57) Abstract:

PURPOSE: To provide a target which does not generate a drift in the compan. ratio of a formed thin film with one piece by changing the mixing ratios of two kinds of materials continuously in the thickness direction of the target.

continuously in the thickness direction of the target.

CONSTITUTION: After a target mold of 3 is placed on an oscillation table 8, a target mold b6 is combined therewith and a uniformly mixed target material 4 is put therein; thereafter, the oscillation table 8 is oscillated. As a result, the sp. gr. of the target material 4 varies between two kinds of the materials and, therefore, the heavier material is moved perpendicularly downward and the lighter material is moved in the opposite direction. The target material 4 changed continuously in such a manner that the material of the higher souttering rate

increases in the thickness direction is, therefore, obtd. This material is then subjected to pressurized sintering at the temp. lower by  $\geq 100^{\circ}$ C than the m.p. thereof or is subjected to the pressurized sintering at the above mentioned temp. after pressurization.

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